

## PATENT COOPERATION TREATY

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Date of mailing (day/month/year) 22 February 1999 (22.02.99)	
Applicant's or agent's file reference PH-595-PCT	IMPORTANT NOTIFICATION
International application No. PCT/JP98/05864	International filing date (day/month/year) 24 December 1998 (24.12.98)
International publication date (day/month/year) Not yet published	Priority date (day/month/year) 26 December 1997 (26.12.97)
Applicant KIKKOMAN CORPORATION et al	

- The applicant is hereby notified of the date of receipt (except where the letters "NR" appear in the right-hand column) by the International Bureau of the priority document(s) relating to the earlier application(s) indicated below. Unless otherwise indicated by an asterisk appearing next to a date of receipt, or by the letters "NR", in the right-hand column, the priority document concerned was submitted or transmitted to the International Bureau in compliance with Rule 17.1(a) or (b).
- This updates and replaces any previously issued notification concerning submission or transmittal of priority documents.
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<u>Priority date</u>	<u>Priority application No.</u>	<u>Country or regional Office or PCT receiving Office</u>	<u>Date of receipt of priority document</u>
26 Dece 1997 (26.12.97)	9/361022	JP	19. Febr 1999 (19.02.99)

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SAS

# INTERNATIONAL SEARCH REPORT

International application No.

PCT/JP98/05864

## A. CLASSIFICATION OF SUBJECT MATTER

Int.Cl<sup>6</sup> C12N15/53, C12N9/02, C12N15/63, C12N1/21, C12Q1/26

According to International Patent Classification (IPC) or to both national classification and IPC

## B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

Int.Cl<sup>6</sup> C12N15/53, C12N9/02, C12N15/63, C12N1/21, C12Q1/26

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

BIOSIS (DIALOG), JICST File (JOIS), GeneBank/EMBL/DBJ (GENETYX)

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	JP, 7-203995, A (Toa Electronics Ltd.), 8 August, 1995 (08. 08. 95), with English Abstract Full text ; Fig. 1 (Family: none)	1, 6-13
Y	JP, 6-504200, A (Amersham International PLC), 19 May, 1994 (19. 05. 94), Full text ; Figs. 1 to 20 & WO, 92/12253, A1 & EP, 566625, A1 & US, 5558986, A	1, 6-13
Y	W.J. Simpson et al., "The Effect of Detergents on Firefly Luciferase Reactions", Journal of Bioluminescence and Chemiluminescence, Vol. 6(2), 1991, p.97-106	1, 6-13
Y	JP, 5-244942, A (Kikkoman Corp.), with English 24 September, 1993 (24. 09. 93), Abstract Full text ; Figs. 1, 2 & EP, 524448, A1 & US, 5229285, A	1, 6-13

☒ Further documents are listed in the continuation of Box C.

☐ See patent family annex.

### \* Special categories of cited documents:

"A" document defining the general state of the art which is not considered to be of particular relevance  
 "E" earlier document but published on or after the international filing date  
 "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)  
 "O" document referring to an oral disclosure, use, exhibition or other means  
 "P" document published prior to the international filing date but later than the priority date claimed

"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention  
 "X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone  
 "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art  
 "&" document member of the same patent family

Date of the actual completion of the international search  
17 March, 1999 (17. 03. 99)

Date of mailing of the international search report  
30 March, 1999 (30. 03. 99)

Name and mailing address of the ISA/  
Japanese Patent Office

Authorized officer

Facsimile No.

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## INTERNATIONAL SEARCH REPORT

International application No.

PCT/JP98/05864

## C (Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	JP, 2-171189, A (Kikkoman Corp.), with English 2 July, 1990 (02. 07. 90), Abstract Full text ; Figs. 1 to 8 & EP, 353464, B1	1-9
A	Hiroki Tatsumi et al., "Molecular Cloning and Expression in Escherichia Coli of a cDNA Clone Encoding Luciferase of a Firefly, <i>Luciola Lateralis</i> ", Biochimica et Biophysica Acta, Vol. 1131, 1992, p.161-165	1-9
A	Tsutomu Masuda et al., "Cloning and Sequence Analysis of cDNA for Luciferase of a Japanese Firefly, <i>Luciola Cruciata</i> ", Gene, Vol. 77, 1988, p.265-270	1-9